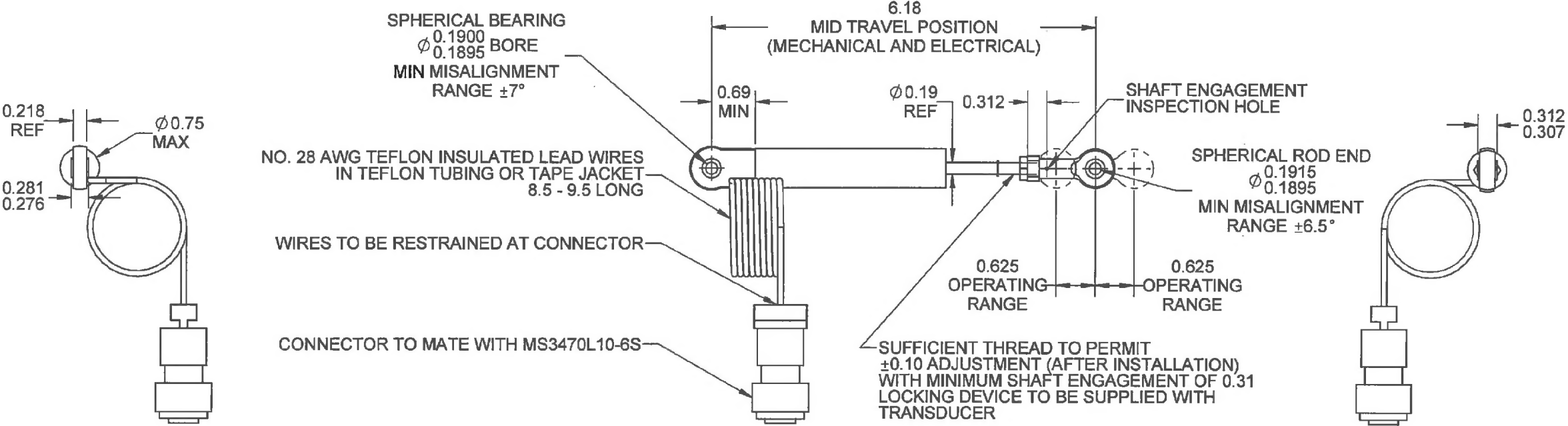
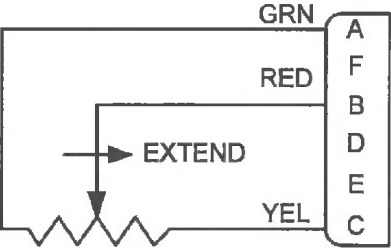


SPECIFICATION CONTROL DRAWING



DART PART NUMBER	DESCRIPTION	VENDOR	VENDOR PART NUMBER	ALTERNATE VENDOR	ALTERNATE VENDOR PART NUMBER	WEIGHT
E4517-1	CONTROL MOTION TRANSDUCER	BELL HELICOPTER	412-074-101-101	DUNCAN ELECTRONICS	600-563	0.07

- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: N/A
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
  - 7) WEIGHT: SEE TABLE
  - 8) THE UNIT SHALL MEET DESIGN AND ENVIRONMENTAL REQUIREMENTS OF MIL-E-5400 FOR CLIA EQUIPMENT EXCEPT TEMP RANGE IS -54°C TO +85°C.
  - 9) PERFORMANCE REQUIREMENTS:
    - A. ELECTRICAL
      - 1. TERMINAL RESISTANCE : 5KΩ±10% AT 25°C AND 50% RELATIVE HUMIDITY. MAX. ±15% OVER ENTIRE ENVIRONMENTAL RANGE.
      - 2. INDEPENDENT LINEARITY: ±.5% OVER OPERATING RANGE. SEE FIGURE 1
      - 3. RESOLUTION: ESSENTIALLY INFINITE
      - 4. NOISE OUTPUT AT WIPER: 0.3 VOLTS RMS MAX. VELOCITY OF 3 IN/SEC WITH 20 VDC EXCITATION AND 50 K LOAD.
      - 5. POWER RATING: 1/2 W/IN AT 25°C  
1/10 W/IN AT 85°C
      - 6. ELECTRICAL TRAVEL: 1.50 MIN
    - B. MECHANICAL
      - 1. STARTING FORCE: 16 OZ MAX
      - 2. MECHANICAL TRAVEL: 1.50 MIN
      - 3. SHAFT ROTATION: CONTINUOUS
      - 4. LIFE TEST: .5 X 10<sup>6</sup> FULL SCALE CYCLES WITH 30 X 10<sup>6</sup> DITHER CYCLES AT 11 Hz SUPERIMPOSED ON THE FULL SCALE CYCLES (2% OF FULL STROKE AMPLITUDE MIN) WITH A MAX DEVIATION OF 0.5% FROM ORIGINAL OUTPUT CURVE AT END OF TEST.



SCHEMATIC

E4517-X LVDT, COLLECTIVE POSITION

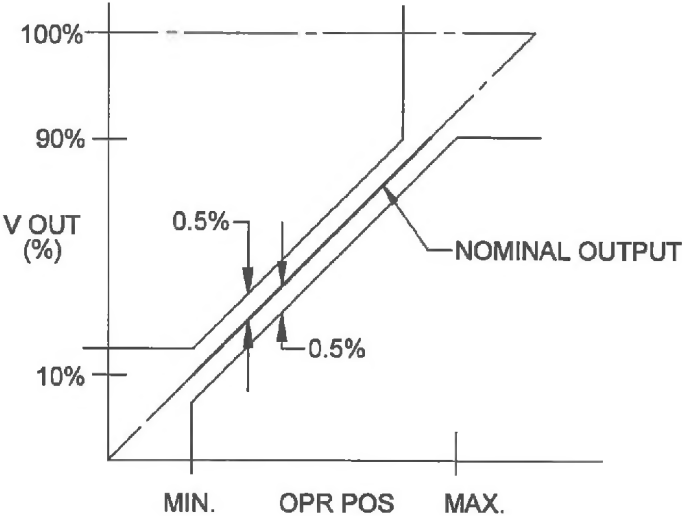








FIGURE 1

A	NEW ISSUE			12.12.03
REV.	DESCRIPTION		BY	DATE
DESIGN		<b>EAGLE COPTERS LTD</b> CALGARY, ALBERTA, CANADA		
DRAWN				
CHECKED		DRAWING NO.	REV. A	
MFG. APPR.	N/A	E4517	SHEET 1 OF 1	
APPROVED		TITLE	SCALE	
DE APPR.		LVDT, CP	NTS	
DATE	12.12.03	COPYRIGHT © 2012 BY EAGLE COPTERS LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLE COPTERS LTD.		